

~~1D~~ ONE-D

POSITION - LOCATION of where an object is.

2-Dimension

DISTANCE - The amount of ground that we travel

DISPLACEMENT - The distance between Start point + end point

A 830 m

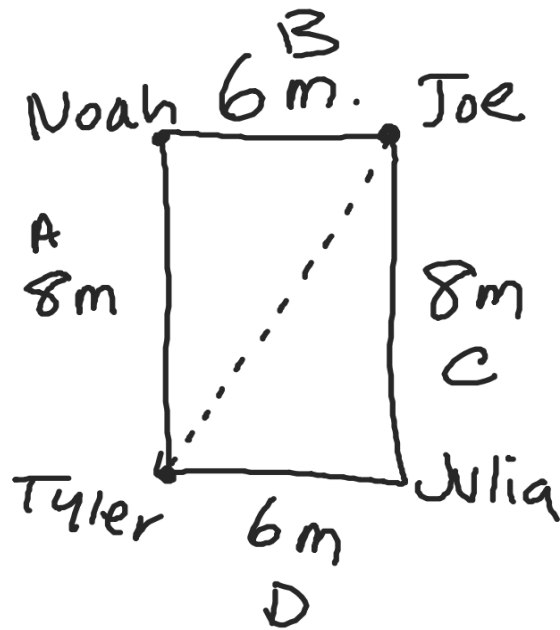
B 915 m

C $921 \text{ steps} \times \frac{5\text{m}}{10 \text{ steps}} = 460.5\text{m}$

E $838 \text{ steps} \times \frac{5\text{m}}{9 \text{ steps}} = 465.6\text{m}$

F $874 \text{ steps} \times \frac{5\text{m}}{9 \text{ steps}} = 485.6\text{m}$

G $905 \text{ steps} \times \frac{5\text{m}}{15 \text{ steps}} = 301.7\text{m}$



Distance
Tyler to
Joe

$$8m + 6m = 14m$$

Displacement
Tyler to Joe

10m

Speed Distance TRavelled
Per UNIT of Time

Velocity Displacement
Per UNIT of time

Vector - A VALUE WITH DIRECTION

Scalar - A VALUE ONLY
*

NAME	Symbol	Vector/ SCALAR	Metric UNITS	US UNITS
Distance	d	S	meters m kilometers km	ft, YARDS, miles
Displacement	x	V	↓	↓
Speed	s	S	m/s km/hr	ft/sec mph
Velocity	v	V	↓	↓

acceleration a ✓ m/s^2 ft/s^2